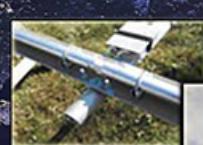




Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)



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Solar-Terrestrial Data

24 Jul 2023 1709 GMT
SFI: 173 SN: 121
A-Index: 6
K-Index: 2
X-Ray: C1.5
304A: 152.3 @ SEM
Ptn Flx: 1580
Elc Flx: 4170
Aurora: 1/n=1.99
Mag (Bz): 2.9
Solar Wind: 420.3
Geomag Field QUIET
Sig Noise Lvl S1-S2
Current Solar Image



<http://www.nbnbh.com>
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Solar Data Banners & Widgets

1994

The Eastern Iowa DX Bulletin

For July 21, 2023 to July 28, 2023

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article. The articles are ordered by the entity's *official* callsign prefix, callsigns used are in **bold**, and dates of operation are highlighted in red. Hot links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active with a 5-week maximum.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>.

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Quick jump to:

[Propagation](#)

[Contest Calendar](#)

1AØ, SOV. MILITARY ORDER OF MALTA. A large multi-national team (EA5C, EA5EL, EA5KA, EA5KM, EA5RM, EA5Z, EA7KE, EA7R, EA7X, F2JD, IK5RUN, IN3ZNR, IZØNIC, IZ4AKS, JH4RHF and RA9USU) will be active again as **1AØC** from the amateur radio station of the Italian Relief Corps of the Order of Malta at the Magistral Villa on the Aventine Hill from **July 26th to August 2nd**. Details will be available on <http://www.1a0c.com/>. As per tradition, this activity will be associated with a charity project. All the proceeds and donations generated by the DXpedition will be used to support the Order of Malta's reconstruction projects in the areas of Romagna heavily affected by the recent floods.

-[425DXN # 1681 July 22, 2023] (0721-0804)

3C, EQUATORIAL GUINEA. Ersoy, TA2OM is QRV as **3C3CA** from Bioko Island, IOTA AF-010, **until July 31st**. QSL via LoTW.

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0804)

3D2, FIJI. BJ, **3D2BJ** (WA7WJR) expected to depart Rotuma on July 19th at 0600 UTC. He "will try to stop in the Mamanuca Group (OC-121) and operate from there" on his way to Viti Levu (OC-016), Fiji. Follow his voyages on

<https://www.questsofdiscovery.com/current-position>. QSL via LoTW or direct to [WA7WJR](#); cards will be sent out when he returns to the US sometime in September.
-[425DXN # 1681 July 22, 2023] (0721-0811)

7Q, MALAWI. Don, K6ZO is QRV as **7Q6M** from the Embangweni Mission Hospital in northern Malawi **until possibly the end of July**. Activity is in his spare time with a special emphasis on 6 meters. QSL direct to [WØMAN](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

9A, CROATIA. Look for **9A7YY, 9A/S53Z, 9A/S54W, 9A/S58MU, 9A/S5ØO** and **9A/S5ØX** to be active from Vis Island (EU-016) from **July 24th until August 1st**. They will operate CW and SSB on 80-10 meters and will also be active during the IOTA Contest. QSLs via the bureau, eQSL, or direct to home calls. [TNX S58MU]
-[425DXN # 1680 July 15, 2023] (0721-0804)

9A, CROATIA. Special event station **9A15ØTESLA** is QRV **during July** to celebrate the 150th anniversary of Nikola Tesla's high school education. QSL direct to [9A7R](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

9J, ZAMBIA. Eddy, OE3SEU is mostly active on the QO-100 satellite, using the call sign **9J2SEU/p**, from grids KH55, KH56, KH43 and KH45. When there are many callers he goes split and by call sign number, starting with zero. QSL via LoTW.
-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0728)

BV, TAIWAN. Kenicho, JP1RIW is QRV as **BMØQSO** from New Taipei City **until the end of 2023**. Activity is on the HF bands using mostly FT8. QSL via bureau.
-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0804)

C2, NAURU. "The return of **C21TS** is confirmed", Phill, 3D2TS (FK1TS) posted to his website on July 3rd. He expects to be back on Nauru on **July 22nd**, but "as I'll be starting a new job, radio will be secondary, and I also don't know where I will be staying yet. But I'd hope to be **on the air by the start of August** in my spare time and weekends. Antenna wise, let's wait and see". Updates will be posted to <https://www.hardstaff.com/>.
-[425DXN # 1679 July 8, 2023] (0721-0818)

C6, BAHAMAS. Station **C6ARS** will be QRV from Great Bahama Bank, IOTA NA-001, **on July 22nd** to mark the 50th anniversary of the independence of the Bahamas. QSL via operators' instructions.
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0728)

CN, MOROCCO. Taking part in the annual Throne Day's celebrations, special callsign **CN24M** will be active from **July 26th to August 6th**. QSL via [CN8WW](#). Throne Day commemorates the enthronement of the incumbent monarch; since 1999, it has been celebrated on July 30th.
-[425DXN # 1681 July 22, 2023] (0721-0811)

CT, PORTUGAL. Special event station **CR6J** will be QRV on **July 17th to 23rd** for the 41st International Motorcycle Rally in Faro. Activity is on 80 to 6 meters using CW, SSB, and various digital modes. QSL via [CT1EHX](#).
-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0728)

CU, AZORES. Chris, [DL2MDU](#) and Heike, [DL3HD](#) are QRV as **CT8/home calls** from Sao Miguel Island, IOTA EU-003, **until July 26th**. QSL to home calls.
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0728)

DL, GERMANY. Special callsign **DLØSOP** will be active on **July 1st-31st** for the 65th edition of the Sea of Peace Award (see <https://dl0sop.darc.de/> for full details). QSL via [ClubLog's OQRS](#), LoTW, eQSL, or direct to [DL4SVA](#).

-[425DXN # 1677 June 24, 2023] (0630-0804)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of July 20, 2023:

1. P5	DPRK (North Korea)	11. 3Y/B	Bouvet Island
2. BS7H	Scarborough Reef	12. ZS8	Prince Edward & Marion Islands
3. CEØX	San Felix Islands	13. KH4	Midway Island
4. BV9P	Pratas Island	14. VKØM	Macquarie Island
5. KH7K	Kure Island	15. PYØS	Saint Peter And Paul Rocks
6. KH3	Johnston Island	16. PYØT	Trindade & Martim Vaz Islands
7. FT/G	Glorioso Island	17. KP5	Desecheo Island
8. 3Y/P	Peter 1 Island	18. VP8S	South Sandwich Islands
9. FT5/X	Kerguelen Island	19. KH5	Palmyra & Jarvis Islands
10. YVØ	Aves Island	20. ZI9	New Zealand Subantarctic Islands

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF July 20, 2023] (0721-0804)

EA6, BALEARIC ISLANDS. Special callsign **EE6RRC** celebrates the Russian Robinson Club's 30th anniversary. It is operated by Jose, EC6DX **until July 31st**. QSL only via LoTW.
-[425DXN # 1681 July 22, 2023] (0721-0804)

F, FRANCE. Dirk, DL1KVN, is currently active as **F/DL1KVN/p until July 28th** on 40-10m (CW, SSB) from Noirmoutier Island (EU-064). On July 20th, he plans to visit Ile d'Yeu (also EU-064). QSL via [DL1KVN](#).

-[DXNL # 2363 July 19, 2023] (0721-0728)

F, FRANCE. F5LPY Bernard, F8EFU Phil, and F4IZC Steph mark the Grand Est Mondial Air Ballons 2023 event with the special callsign **TM23MAB**. QRV from **July 17th to 31st** on 160-10m (CW, SSB, digital) and via QO-100. QSL via [F5LPY](#), LoTW.

-[DXNL # 2363 July 19, 2023] (0721-0804)

GD, ISLE OF MAN. Keith, G3TTC plans to be QRV as **GD3TTC** near Onchan from **July 26th to 29th**. Activity will be holiday style on 40 to 10 meters using SSB. This includes being an entry in the upcoming RSGB IOTA contest. QSL to [G3TTC](#).

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0804)

HK, COLOMBIA. Celebrating the 200th anniversary of the Colombian Navy (Armada de la Republica de Colombia) and the Battle of Lake Maracaibo (July 24, 1823), several special callsigns will be in use on July 22nd-24th: **5KØARC, 5K1ARC, 5K2ARC, 5K3ARC, 5K4ARC, 5K5ARC, 5K6ARC, 5K7ARC, 5K8ARC, 5K9ARC; 5KØCB, 5K1CB, 5K2CB, 5K3CB, 5K4CB, 5K5CB, 5K6CB, 5K7CB, 5K8CB, 5K9CB; 5KØBG**. Look for activity on 80-10 meters CW, SSB, FT8, FT4. The event is organized by Liga Radio Bogota. QSL via LoTW, eQSL, qrz.com, ClubLog, or via [HK3LRB](#). A number of awards will be available, see <https://www.qrz.com/db/5K1ARC> for detailed information.

-[425DXN # 1679 July 8, 2023] (0721-0728)

HL, SOUTH KOREA. Wouter, PB1WL plans to be QRV as **HL4/PB1WL** from **July 17th to August 16th**. QSL to [PB1WL](#).

-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0818)

I, ITALY. Francesco, IK6QON will be active holiday style as **IA5/IK6QON** from Isola del Giglio (EU-028) on **July 22nd-31st**. He will operate CW and SSB on the HF bands, with some activity during the IOTA Contest.

-[425DXN # 1681 July 22, 2023] (0721-0804)

I, ITALY. Special callsign **II3GR** is the for the annual YOTA Camp organized by ARI Grado. This year it will took place on Volpera Island (not IOTA) on **July 20th-23rd**, including participation in the second session of the YOTA Contest (July 22nd, 1000-2159 UTC). QSL via [IV3CTT](#).

-[425DXN # 1680 July 15, 2023] (0714-0728)

I, ITALY. Special callsign **IL3P** will be used from **July 1st to September 30th** from various locations in the Italian region of Veneto. On **July 28th-31st** team IL3P will be active from Pellestrina Island (EU-131), including participation in the IOTA Contest. QSL via [IU3EDK](#).

-[425DXN # 1677 June 24, 2023] (0630-0728)

ISØ, SARDINIA. Giuseppe, IK5WWA will be active as **IMØC** from San Pietro Island (EU-165) on **July 16th-30th**. He will be QRV on 40-2 meters, hopefully also on 80m. QSL via [IK5WWA](#).

-[425DXN # 1680 July 15, 2023] (0714-0804)

JA, JAPAN. JA1QQU/6 will be active from Yoron Island (AS-023) on **July 27th-30th**. Look for him on 10 and 6 meters FT8 between 2300-0200 UTC, and again between 1000-1400 UTC. QSL via [JA1QQU](#), LoTW and eQSL.

-[425DXN # 1681 July 22, 2023] (0721-0804)

JA, JAPAN. Take, JI3DST will be active from the Miyako Islands (AS-079) from **July 20th to August 2nd**. He will operate SSB and CW as **JS6RRR, JJ5RBH/6** and **JI3DST/6** (including participation in the IOTA Contest **July 29th-30th**), as well as **JI3DST/p** and **JJ5RBH/p** on FT8. The QSOs will be made available for ClubLog and LoTW Matching on the IOTA website.

-[425DXN # 1679 July 8, 2023] (0714-0804)

JD1/M, MINAMI TORISHIMA. Take, JG8NQJ is QRV as **JG8NQJ/JD1** until **October 19th**. Activity is in his spare time on 17, 15, 12, and 10 meters. When active using FT8, send his signal strength report, not the grid square. QSL via [JA8CJY](#).

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

K, UNITED STATES. John, **WB8YJF** will be active again from Ocracoke Island (NA-067) from **July 22nd to August 4th**, including an entry in the RSGB IOTA Contest (July 29th-30th). He will operate CW, FT8/FT-4, RTTY, and some SSB. QSL via [WB8YJF](#); he will also upload his log to LoTW and hopefully ClubLog. [TNX NG3K]

-[425DXN # 1679 July 8, 2023] (0721-0804)

LX, LUXEMBOURG. Special callsign **LX9ØRTL** celebrates the 90th anniversary since Radio Luxembourg made its first long wave broadcast. It will be used by various LX operators from **July 1st until the end of the year**. Look for activity on the HF bands SSB, CW and digital modes, as well as via satellite. All QSOs will be confirmed automatically via the DARC bureau; the logs will be uploaded to ClubLog, LoTW and eQSL on a regular basis. See <https://www.qrz.com/db/LX90RTL> for more information.

-[425DXN # 1675 June 10, 2023] (0630-0804)

LY, LITHUANIA. Special callsigns **LY1933DG, LY9ØDG, LY9ØFLY, LY9ØSD** and **LY9ØSG** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of Lithuanian pilots Steponas Darius and Stasys Girenas. On July 15, 1933, they attempted a nonstop flight from New York City to Kaunas in a small airplane named "Lituanica". After crossing the Atlantic Ocean, they crashed on July 17th when they were only 650 km short of their final destination. Also active will be six special event stations from Poland, and a certificate will be available (see SP below).

-[425DXN # 1675 June 10, 2023] (0630-0728)

OE, AUSTRIA. Special callsigns **OE2XXM** and **OE5XXM** will be active during **July and September** around the international autumn field day in Gosau. QSL via bureau. For more information see: <http://www.qrz.com/db/oe2xxm> and <http://www.qrz.com/db/oe5xxm>.

-[DXNL # 2361 July 6, 2023] (0707-0728)

OH, FINLAND. Jarno, OH6NJ will be active as **OH6NJ/8** from Hailuoto Island (EU- 184) on **July 24th-31st**. He will operate CW, SSB and FT8 mainly on the higher bands. QSL via [OH6NJ](#). [TNX DX World]
-[425DXN # 1680 July 15, 2023] (0721-0804)

OK, CZECH REPUBLIC. Special event station **OL3ØØSANTINI** is QRV **until December 31st** to commemorate Czech architect Jan Blazej Santini-Aichel who was famous for what came to be known as the Czech Baroque Gothic architectural style. QSL via operators' instructions.
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

OK, CZECH REPUBLIC. Radioklub OK1KVK is QRV with special call sign **OL7ØKVK** **until December 31st** to mark the club's 70th anniversary. QSL via [OK6RP](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

OY, FAROE ISLANDS. Przemek, SP7VC, and his wife Katarzyna, SQ7OYL, will be active as **OY/home calls** from **July 23rd to 27th** with a focus on 20m, 6m, and 4m. QSL via [SP7VC](#).
-[DXNL # 2363 July 19, 2023] (0721-0728)

OZ, DENMARK. Ron, DL1RNW will be active as **OZ/DL1RNW** from Sandkas (WWL JO75jg) on Bornholm Island (EU-030) from **July 23rd to August 5th**. He will be QRV on the HF bands and 6 meters. QSL via eQSL.
-[425DXN # 1680 July 15, 2023] (0721-0804)

P2, PAPUA NEW GUINEA. Lowell, DU3LZ has been QRV for the past two weeks as **P29LZ**. Listen for him on 40, 20 and 15 meters using SSB and in the future on FT8.
-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0728)

PJ4, BONAIRE. Robert, PD2V is QRV as **PJ4/PD2V** from Kralendijk **until August 11th**. Activity is on 40, 30, and 20 meters using SSB and FT8. QSL via LoTW.
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0811)

SP, POLAND. Special event stations **3Z9ØLOT, HF9ØLOT, SN9ØLOT, SO9ØLOT, SP9ØLOT** and **SQ9ØLOT** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of the "Lituanica" (see LY above). See <https://logsp.pzk.org.pl/a/lituanica/> for the certificate and more information.
-[425DXN # 1675 June 10, 2023] (0630-0728)

SV, GREECE. Kim, ON4BCV is QRV as **SV8/ON4BCV/p** from Samos Island, IOTA EU-049, **until July 24th**. Activity is holiday style. QSL to [ON4BCV](#).
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0728)

TF, ICELAND. Mek, SP7VC and Kasia, SQ7OYL will be active as **TF/SP7VC** during an extensive tour of Iceland from **July 27th to August 17th**. Look for activity on 50, 70 and 144 MHz, as well as on 20 meters.
-[425DXN # 1680 July 15, 2023] (0721-0818)

TG, GUATEMALA. Dennis, KT8X will be active holiday style as **TG4/KT8X** from Guatemala from **July 23rd to August 4th**. Plans are to operate CW, FT8 and possibly some SSB on 40-6 meters. QSL via LoTW only. [TNX NG3K]
-[425DXN # 1680 July 15, 2023] (0721-0804)

TK, CORSICA. Frans, DJØTP will be active again as **TK/DJØTP** from the main island of Corsica (EU-014) from **July 27th to September 3rd**. QSL via [DJØTP](#) and LoTW.
-[425DXN # 1681 July 22, 2023] (0721-0825)

UA, EUROPEAN RUSSIA. Taking part in the celebrations of the Russian Robinson Club's 30th anniversary, look for **R1BET/p**, **R1CBL/p**, **R1MJ/p** and **RA1AGJ/p** to be active from Zapadnyy Berezovyy Island (EU-117) on **July 22nd-26th**.

-[425DXN # 1681 July 22, 2023] (0721-0728)

UA, EUROPEAN RUSSIA. A six-men team (R3XDA, RA1QY, RU3EG, RU5D, RZ3EC and UA3EDQ) will be active as **RI1OR** from Bolshoy Solovetsky Island (EU-066) on **July 25th-29th**. They will operate CW, SSB and digital modes on 160-10 meters. A brief activity as R3RRC/1 from nearby Bolshaya Muksalma is also being planned. QSLs via [RZ3EC](#).

-[425DXN # 1678 July 1, 2023] (0721-0728)

UA, EUROPEAN RUSSIA. Celebrating the 30th anniversary of the Russian Robinson Club (R3RRC), several special callsigns are expected to be in use from **July 1st to 31st**:

R3ØRRC, RA3ØRR, RC3ØRR, RD3ØRR, RJ3ØRR, RK3ØRR, RL3ØRR, RM3ØRR, RN3ØRR, RO3ØRR, RT3ØRR, RU3ØRR, RV3ØRR, RW3ØRR, RX3ØRR, RZ3ØRR.

Other stations joining the celebrations include **DR3ØRRC, GBØRRC, HG3ØRRC, II9RRC, KH6RRC, KH8RRC, KL7RRC, LZ3ØRRC, OL3ØRRC and OM3ØRRC**. A number of certificates will be available - see <https://www.qrz.com/db/R30RRC> for the details.

-[425DXN # 1677 June 24, 2023] (0630-0728)

V7, MARSHALL ISLANDS. Bob, WØRGC is QRV as **V7/WØRGC** from Kwajalein Island for about two to three weeks. Activity is in his spare time on 20, 15, and 10 meters using SSB. QSL to [WØRGC](#).

-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0804)

V8, BRUNEI DARUSSALAM. Celebrating the 77th birthday of HRM Hassanal Bolkiah, Sultan and Yang Di-Pertuan of Brunei, special callsign **V84SPU** will be active on **July 18th-26th** on all bands and modes. QSL direct to P.O. Box 849, MPC Old Airport, Bandar Seri Begawan BB3577, Brunei Darussalam.

-[425DXN # 1681 July 22, 2023] (0721-0728)

VE, CANADA. A group of Canadian operators pay a visit to Petete-Ile-au-Marteau (NA-176) from **July 22nd to 30th**, operating as **VB2M** on 80-6m (CW, SSB, FT8), including the IOTA Contest. QSL via OQRS, LoTW.

-[DXNL # 2363 July 19, 2023] (0721-0804)

VE, CANADA. The third Youth on the Air (YOTA) summer camp for young radio amateurs aged 15-25 in the Americas (<https://youthonthear.org/>) will be held on **July 16-21** at Carleton University in Ottawa, Ontario. Campers will operate special event station

VE3YOTA during breaks between sessions. In addition, there will be dedicated operating times on the HF bands (**July 17 and 18 between 2300 and 0300 UTC**) and satellites, as well as for a POTA activation (see qrz.com for the details). QSL via LoTW, or [WØAAE](#).

-[425DXN # 1677 June 24, 2023] (0714-0728)

VK9N, NORFOLK ISLAND. David, VK5DG, operates holiday-style as **VK5DG/9** from Norfolk (OC-005) until **July 27**. QRV via the IO-117, AO-91, PO-101, RS-44, and AO-7 satellites. QSL via LoTW, eQSL.

-[DXNL # 2363 July 19, 2023] (0721-0728)

VP5, TURKS & CAICOS ISLANDS. Shawn, KI5PXG will be active holiday style as **VP5/KI5PXG** from the Turks Islands (NA-003) on **July 17th-24th**. He will operate SSB and FT8 on the HF bands, primarily 10 and 20 meters. QSL via LoTW.

-[425DXN # 1680 July 15, 2023] (0714-0728)

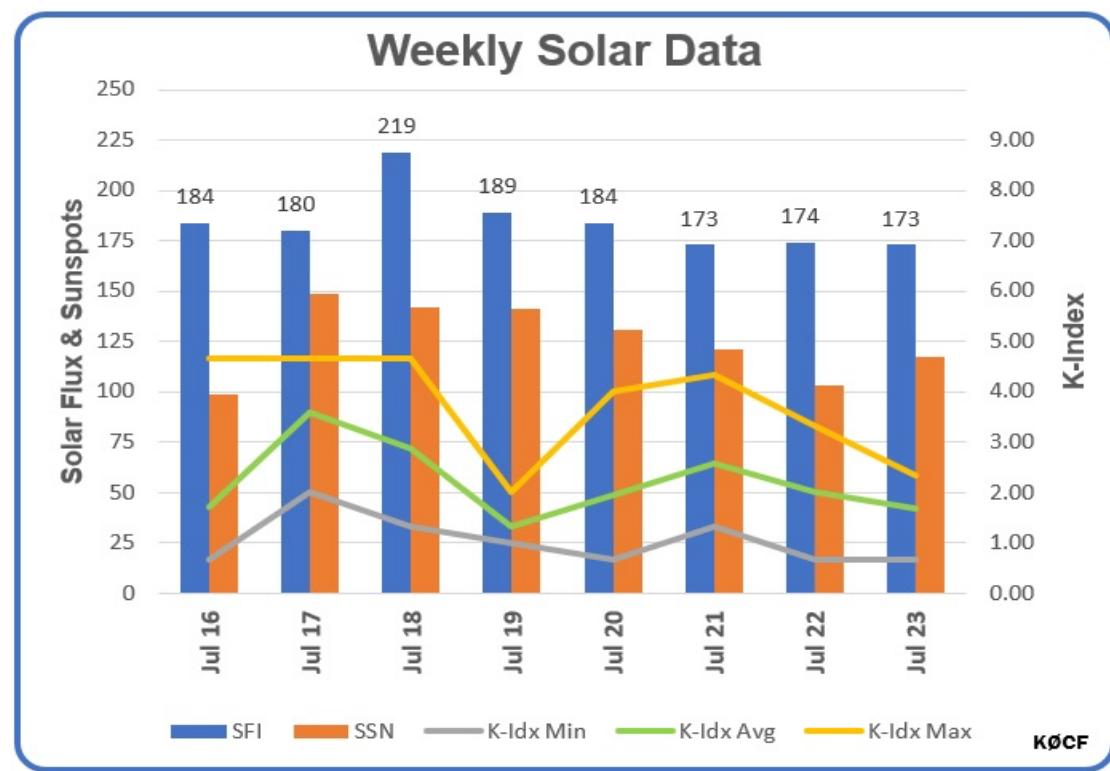
XW, LAOS. Simon, **XWØLP** has returned to live in Luang Prabang, Laos. For the time being he is active on 20 meters FT8, and he hopes "to be operational soon also on 40, 15, 12 and 10 meters (80, 30 and 6 meters are now not authorized for use in Laos)". QSL via

[ClubLog's OQRS](#); he no longer uses LoTW ("too much hassle when changing laptops").
-[425DXN # 1681 July 22, 2023] (0721-0811)

XZ, MYANMAR. Akio, JE2QIZ is QRV as **XZ2B** from Yangon until the end of September.
Activity is on 15, 12, 10, and 6 meters using CW. QSL via [JH3SIF](#).
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

Z2, ZIMBABWE. Eddy, OE3SEU is QRV as **Z21MV** through August. He is active on
Satellite QO-100 using SSB. QSL via LotW.
-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0818)

Propagation



July 24, 2023

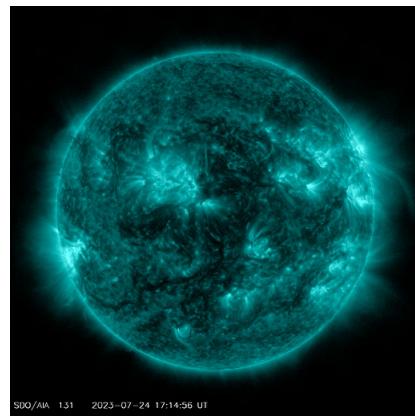
The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of
the Sun at a wave-
length of 131 Angstroms.
This wavelength shows
incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



Propagation Summary

Monday, July 24th.

For the week of July 16th through Sunday, July 23rd:

The average solar flux was down 8 points from the previous week, with a weekly high of 219 on Tuesday, July 18th, followed by a low of 173 on July 23rd.

The average sunspot count was down by 29 points for the week, peaking at 149 on Monday, July 17th after a weekly low of 99 on July 16th.

The Planetary K-index weekly maximum was 4.7 on Tuesday, July 18th, with an average of 3.8 for the week. The result was generally quiet geomagnetic conditions.

Solar flare activity since July 16th has been high with 11 flares, the largest of which was an M 5.0 event on Monday, July 17th.

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares for the next 3 days:

Date	M-Flares	X-Flares
July 24	45%	5%
July 25	30%	5%
July 26	25%	5%

Looking ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days:

Date	Flux	Kp
Jul 24	160	2
Jul 25	160	2
Jul 26	160	2
Jul 27	160	2

Date	Flux	Kp
Jul 28	165	2
Jul 29	165	2
Jul 30	170	2
Jul 31	170	2

Date	Flux	Kp
Aug 1	165	2
Aug 2	165	2
Aug 3	165	3
Aug 4	165	3

Solar Flares This Week (As of 9:54 PM July 23, 2023)

#	Date	UTC	Mag.
1	Jul 22	0337	M 3.1

2	Jul 19	1722	M 3.8
3	Jul 19	1057	M 1.4
4	Jul 18	2027	M 2.1
5	Jul 18	1948	M 1.3
6	Jul 18	0656	M 1.5
7	Jul 17	2334	M 5.0
8	Jul 17	2254	M 2.7
9	Jul 16	1746	M 4.0
10	Jul 16	1508	M 1.7
11	Jul 16	0826	M 1.0

Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 227 on July 11, 2023.

Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>

<https://www.spaceweather.com/>

<https://www.solarham.net/>

<https://dx.qsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

Selected Upcoming Contests

Contest	Start		End		Web Site
RSGB IOTA Contest	Jul 29	1200Z	Jul 30	1200Z	Rules
10-10 Int. Summer Contest, SSB	Aug 5	0001Z	Aug 6	2359Z	Rules
North American QSO Party, CW	Aug 5	1800Z	Aug 6	0600Z	Rules
WAE DX Contest, CW	Aug 12	0000Z	Aug 13	2359Z	Rules
Maryland-DC QSO Party	Aug 12	1400Z	Aug 13	0400Z	Rules
Kentucky State Parks on the Air	Aug 12	1400Z	Aug 12	2200Z	Rules
North American QSO Party, SSB	Aug 19	1800Z	Aug 20	0600Z	Rules
ARRL Rookie Roundup, RTTY	Aug 20	1800Z	Aug 20	2359Z	Rules
Hawaii QSO Party	Aug 26	0400Z	Aug 28	0400Z	Rules
World Wide Digi DX Contest	Aug 26	1200Z	Aug 27	1200Z	Rules
YO DX HF Contest	Aug 26	1200Z	Aug 27	1200Z	Rules
Kansas QSO Party	Aug 26	1400Z	Aug 27	2000Z	Rules
Ohio QSO Party	Aug 26	1600Z	Aug 27	0400Z	Rules
All Asian DX Contest, Phone	Sep 2	0000Z	Sep 3	2400Z	Rules
CWOps CW Open	Sep 2	0000Z	Sep 2	2359Z	Rules
Colorado QSO Party	Sep 2	1300Z	Sep 3	0400Z	Rules
Tennessee QSO Party	Sep 3	1800Z	Sep 4	0300Z	Rules
WAE DX Contest, SSB	Sep 9	0000Z	Sep 10	2359Z	Rules
North American Sprint, CW	Sep 10	0000Z	Sep 10	0359Z	Rules
Scandinavian Activity Contest, CW	Sep 16	1200Z	Sep 17	1200Z	Rules
Texas QSO Party	Sep 16	1400Z	Sep 17	2000Z	Rules
Washington State Salmon Run	Sep 16	1600Z	Sep 17	2400Z	Rules
New Jersey QSO Party	Sep 16	1600Z	Sep 17	0359Z	Rules
New Hampshire QSO Party	Sep 16	1600Z	Sep 17	2200Z	Rules
Wisconsin Parks on the Air	Sep 16	1600Z	Sep 16	2300Z	Rules
North American Sprint, RTTY	Sep 17	0000Z	Sep 17	0359Z	Rules
CQ Worldwide DX Contest, RTTY	Sep 23	0000Z	Sep 24	2400Z	Rules
Maine QSO Party	Sep 23	1200Z	Sep 24	1200Z	Rules

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]